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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/768,275 01/25/2001		Igor Tkachov	081513-5	3643	
22204	7590 07/21/2004		EXAMINER		
NIXON PEABODY, LLP			. NGUYEN, HANH N		
401 9TH STREET, NW SUITE 900		•	ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20004-2128			2662	7	
			DATE MAILED: 07/21/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)				
•	09/768,275	TKACHOV ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hanh Nguyen	2662				
The MAILING DATE of this communication ap		correspondence address				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replection of the provision of the period for reply specified above, the maximum statutory period for reply within the set or extended period for reply will, by statue that the period for reply will, by statue and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tirply within the statutory minimum of thirty (30) day of will appty and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
2a) ☐ This action is FINAL . 2b) ☐ Th 3) ☐ Since this application is in condition for allows						
Disposition of Claims						
4) ⊠ Claim(s) 1-31 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-5,9-15,17,20-26,28 and 31 is/are is/30 Claim(s) 6-8,16,18,19,27,29 and 30 is/are ob 8) □ Claim(s) are subject to restriction and/	awn from consideration. rejected. jected to.					
Application Papers						
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination is objected.	ccepted or b) objected to by the e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob-	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bure: * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06) Paper No(s)/Mail Date 2.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					
- apoi riolopinon ooto <u>-</u>	5/ <u> </u>					

Application/Control Number: 09/768,275

Art Unit: 2662

DETAILED ACTION

Claim Objections

Claims 10 is objected to because of the following informalities: Is "the echo cancellers" on line 4 referred to "a tracking echo canceller" and "a current echo canceller". Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-5, 9, 10, 13-15, 17, 20-26, 28 and 31 are rejected under 35 USC 102(e) as being anticipated by Chen et al. (US Pat. No. 6,580,696 B1).

In claims 1-5, 9, 10, 13-15, 17, 20-26, 28 and 31, Chen et al. discloses, in Fig.4, a echo canceller system 56 comprising EC1 (current echo canceller) and EC2 (tracking echo canceller).

A comparator 124 compares error signals produced by the two echo canceller to determine which

of the two echo cancellers yields smaller error signal (determination device comparing accuracy of the tracking echo canceller and the current echo canceller). See col.3, lines 5-15 & col.5, lines 45-60. The EC1 (current echo canceller) is updated. See col.5, lines 5-10.

In claims 11, 12, 22 and 23, Chen et al. discloses a packet buffer reading and filling up voice packet every 10ms (sampling input signal and reading samples into a memory device). See col.4, lines 45-55.

Allowable Subject Matter

Claims 6, 7, 8, 16, 18, 19, 27, 29, 30 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

In claims 6, 7, 8, 16, 18, 19, 27, 29 and 30, the prior art does not disclose the accuracy is based on the subtraction of an extraneous signal and an estimation of an echo from a received sampled signal; the tracking echo canceller adjusts one or more off-line echo cancellers taps based on a known, received sync frame; a running average of a plurality of transmit and received signals are maintained and substracted from a sync frame of samples.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Vahatalo et al. (US Pat. No. 5737410) discloses Method for Determining the Location of echo in an Echo canceller.

Chujo et al. (US Pat. No. 5,305,309) discloses echo Cancellers.

Sridhar et al. (US Pat. No. 5007047) discloses Adaptive Rate Control for Echo Cancelling Modem.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh Nguyen whose telephone number is 703 306-5445. The examiner can normally be reached on Monday-Friday from 8AM to 4:30PM. The examiner can also be reached on alternate

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou, can be reached on 703 305-4744. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hanh Nguyen

18,2004 Juyer